

CURRICULUM VITAE

Emmanouil A. Giakoumakis

Professor Athens University of Economics and Business (AUEB)

PERSONAL INFORMATION

Year and Place of Birth: 1958, Heraklion, Crete, Greece

Marital status: Married, father of three children

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PROFESSIONAL CARREER

Academic Positions

1990 - 1993: Lecturer, Informatics Department, Athens University of Economics and Business

1993 – 2001: Assistant Professor, Informatics Department, Athens University of Economics and Business

2001 - 2012: Associate Professor, Informatics Department, Athens University of Economics and Business

2012 - : Professor, Informatics Department, Athens University of Economics and Business.

Management Positions

1988 - 1990: Head of Informatics Department of the Hellenic Society for Local Development and Local Government (EETAA)

1995 -1997: Chairman and Managing Director of the State Societe Anonyme Hellenic Information Systems (ELSY SA)

1998-2000: Secretary General of Communications of the Greek Ministry of Transport and Communications.

2000 - 2005: Chairman of the Greek Regulatory Authority for Electronic Communication under the name "Hellenic Telecommunications and Post Commission (EETT)" (<http://www.eett.gr/>)

2000-2005: Member of the IRG (Independent Regulators Group), the highest body, of the European Electronic Communications Regulators' Association.

2000-2005: Member of the European Regulators Group (ERG), a high-level advisory and recommendation body of the European Commission.

- 2011 - 2015: Vice-Rector of Academic Affairs and Personnel of Athens University of Economics and Business.
- 2015 - 2020: Rector of Athens University of Economics and Business.

GENERAL RESEARCH AREAS

Software Engineering, Biomedical Applications, Regulation and Competition in the Electronic Communications Market, Communications Policies.

TEACHING

Undergraduate courses: Software Engineering, Computer Programming,
Postgraduate courses: Software Engineering, Technological and Regulatory Issues of Telecommunications

Supervision of MS and PhD students.

PUBLICATIONS

Books

- Giakoumakis E. A., "*Software Engineering*", *Volume A*", A. Stamoulis Publications, Athens 1994.
- Giakoumakis E. A., "*Software Engineering*", *Volume B*", A. Stamoulis Publications, Athens 1993.
- Giakoumakis E. A., Gyrtis K., Belesiotis V., Xinos P., Stergopoulou N., "Informatics and Computers Applications", Student's Book, Educational Institute, Ministry of Education and Religion, 2001.
- Giakoumakis E. A., Gyrtis K., Belesiotis V., Xinos P., Stergopoulou N., "Informatics and Computers Applications", Student's Handbook, Educational Institute, Ministry of Education and Religion, 2001.
- Giakoumakis E. A., Gyrtis K., Belesiotis V., Xinos P., Stergopoulou N., "Informatics and Computers Applications", Professor's Book, Educational Institute, Ministry of Education and Religion, 2001.
- Giakoumakis E. A., Diamantidis N., "*Software Engineering*", A. Stamoulis Publications, Athens 2009.

Selected Journal Publications

- Giakoumakis E., G. Papakonstantinou, E.Skordalakis, "*Rule-based systems and pattern recognition*", ***Pattern Recognition Letters***, vol. 5, No 4, 267-272, April 1987.
- Kyrkos A., E. A. Giakoumakis, G. Carayiannis, "*QRS detection through time recursive prediction techniques*", ***Signal Processing***, vol. 15, 429-436, December 1988.
- Mouloupoulos S.D., S.F. Stamatelopoulos, C.P Papamichael, N.A. Zakopoulos, E.A. Giakoumakis, "*Hypertensives' without hypertension: The need for a new definition*", ***Journal of Ambulatory Monitoring***, vol. 2, No 4, 269-275, 1989.
- Stamatelopoulos S.F., N. Zakopoulos, J. Papadakis, E.A. Giakoumakis, S.D. Mouloupoulos, "*Linear models of Blood Pressure - Heart Rate variability in classifying*

- essential Hypertension*", **Journal of Ambulatory Monitoring**, vol. 7, No 3, 235-246, 1994.
- Bourlas F., E. Giakoumakis, D. Koutsouris, G. Papakonstantinou, P. Tsanakas, "The **CARDIO-LOGOS** system for ECG training and diagnosis", **Technology and Health Care**, vol. 3, 279-285, 1996.
 - Giakoumakis E. A., G. Xylomenos, "Evaluation and Selection Criteria for Software Requirements Specification Standards", **Software Engineering Journal**, vol. 11, No. 5, 307-319, 1996.
 - Diamantidis N., E. A. Giakoumakis, "Don't care values in induction", **Artificial Intelligence in Medicine**, vol. 8, 505-514, 1996.
 - Diamantidis N. and E. A. Giakoumakis, "An Interactive tool for Knowledge base refinement", **Expert Systems**, vol. 16, No 1, 2-10, 1999.
 - Diamantidis N. A., D. Karlis, E. A. Giakoumakis, "Unsupervised stratification of cross-validation for accuracy estimation", **Artificial Intelligence**, 116 (2000), 1-16, 2000.
 - Christos Doukeridis, Vassilis Zafeiris, Kjetil Nørnvåg, Michalis Vazirgiannis, Emmanouel A. Giakoumakis, "Context-based caching and routing for P2P web service discovery", **Distributed and Parallel Databases Journal** special issue on Context-aware Web services, Vol. 21, Issue 1, pages 59-84, 2007.
 - Vassilis Zafeiris, Emmanouel Giakoumakis. "An Agent-based Perspective to Handover Management in 4G Networks", **Wireless Communications and Mobile Computing Journal**, Vol. 8, Issue 7, pages 927-939, 2008.
 - Vassilis E. Zafeiris and E. A. Giakoumakis, "Optimized Traffic Flow Assignment in Multi-homed, Multi-Radio Mobile Hosts", **Computer Networks Journal**, Vol. 55, Issue 5, pages 1114-1131, 2011.
 - A. Christopoulou, E. A. Giakoumakis, V. E. Zafeiris, V. Soukara, "Automated Refactoring to the Strategy Design Pattern", **Information and Software Technology Journal**, Vol. 54, pages 1202-1214, 2012.
 - M.G. Gaitani, V.E. Zafeiris, N.A. Diamantidis, E.A. Giakoumakis, "Automated refactoring to the NULL OBJECT design pattern", **Information and Software Technology Journal**, Vol. 59, pp 33-52, 2015.
 - Vassilis E. Zafeiris, Sotiris H. Poulias, N.A. Diamantidis, E.A. Giakoumakis, "Automated refactoring of super-class method invocations to the Template Method design pattern", **Information and Software Technology Journal**, Volume 82, pages 19-35, 2017.
 - Papayiannis GI, Giakoumakis EA, Manios ED, et al., "A functional supervised learning approach to the study of blood pressure data", **Statistics in Medicine**, 2018;37:1359–1375. <https://doi.org/10.1002/sim.7587>, 2018.

Articles in edited volumes

- Giakoumakis, E., "Information Network for Local Authorities, Greece (Third party services and contracting out - Project management support)", **Management Issues in Applying Information Technology in public administration: The Greek experience compared with those of Canada, Ireland and Sweden**, Edited by Organization for Economic Co-operation and Development (OECD), 119-122, Paris 1989.

- Giakoumakis E.A., G. Papakonstantinou, "A consulting system for ECG diagnosis", **Engineering Systems with Intelligence: Concepts, Tools and Applications**, Edited by S. Tzafestas, Kluwer Academic Publishers (ISBN 0-7923-1500-6), 133-137, 1991.
- Giakoumakis E., "Telecommunications and new Technologies", **NEW MILLENNIUM GREECE, IMCE, Paris France**, pp 165-181, 2001.

Selected Conference Publications

- Giakoumakis E. A., "Computer-based cardiac state diagnosis using Fourier analysis", **Digitech 84, IMACS**, July 1984, University of Patras, Elsevier Science Publishers, 241-246, 1985.
- Giakoumakis E. A., G. Papakonstantinou, "An ECG data reduction algorithm", **Computers in Cardiology**, IEEE, Boston, pp. 675-677, 1986.
- Giakoumakis E., G. Papakonstantinou, M. Sideri, "A hybrid approach to the QRS detection in the ECG waveforms", **IEEE/Ninth Annual Conference of the Engineering in Medicine and Biology Society - Boston 1987**, pp. 1883-1884, 1987.
- Kyrkos A., E. A. Giakoumakis, G. Carayiannis, "Time recursive prediction techniques on QRS detection problem", **IEEE/Ninth Annual Conference of the Engineering in Medicine and Biology Society - Boston 1987**, pp. 1885-1886, 1987.
- Giakoumakis E., G. Papakonstantinou, "A Prolog Program for the QRS detection and classification", **Computers in Cardiology, IEEE, Leuven, Belgium, 1987**, 75-78, 1987.
- Giakoumakis E.A., S. Mouloupoulos, G. Papakonstantinou, D. Sideris, S. Toumanidis, "Formalization of the ECG diagnostic criteria using an expert system shell", **Computers in Cardiology, IEEE Leuven, Belgium, 1987**, 155-158, 1987.
- Sideris D.A., S.D. Mouloupoulos, S. Toumanidis, E. Giakoumakis, "A suggestion for a stepwise operation of an expert system for Electrocardiographic diagnosis", **Medicon 89, Univ. Patras 1989**, 282-283, 1989.
- Giakoumakis E. A., G. Papakonstantinou, "The GIBS interface for ECG diagnosis", **Computers in Cardiology, IEEE, Venice, Italy, 1991**, 681-684, 1991.
- Giakoumakis E., N. Diamantidis, "A Learning System for ECG Diagnosis Expert Systems", **Computers in Cardiology, IEEE, London, UK, 1993**, 563-566, 1993
- C. A. Osuna, Y.A. Dimitriadis, L. Barrio, B. Rubia, A. Kefala, E.A. Giakoumakis, T. Apostolopoulos, "A new telematic and educational framework for CSCL applications", **TET'99** (Telecommunications for Education and Training), Gjovik, Norway, June 1999, 99-106, 1999.
- Ph. Bourlas, E. Giakoumakis, G. Papakonstantinou, "A knowledge acquisition and management system for ECG diagnosis", **ACAI-99** (Advanced Course on Artificial Intelligence), Chania, Greece, July 1999.
- Y. A. Dimitriadis, S. Andritsopoulou, E. Giakoumakis, "A distance computer supported collaborative learning approach for repatriated teachers", **Information and Communication Technologies in Education**, September 2002, Rhodes, 594-603, 2002.
- Vassilis Zafeiris, E. Giakoumakis, "An Agent-based Architecture for Handover Initiation and Decision in 4G Networks" In Proceedings of 6th **IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 05)**, pages 72-77, Taormina, Italy, June 2005.

- Vassilis E. Zafeiris and E. A. Giakoumakis, “Towards flow scheduling optimization in Multihomed Mobile Hosts” In Proceedings of **IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 08)**, IEEE, 2008.
- Vassilis E. Zafeiris and E. A. Giakoumakis, “Mobile Agents for Flow Scheduling Support in Multihomed Mobile Hosts” In Proceedings of **International Wireless Communications and Mobile Computing Conference, 2008. (IWCMC 08)**, pages 261-266, IEEE, 2008.
- George Tsatsaronis, Maria Halkidi, and E. A. Giakoumakis, “Quality Classifiers for Open Source Software Repositories”, **AIAI-2009** Workshops Proceedings, pages 179-186, 2009.
- S. Polykalas, D. Linardatos, E. Giakoumakis, “Evidence of Network Convergence at EU level”, **International Conference on Information Society (IEEE/i-Society 2014, <http://www.i-society.eu/>)**, 10-12, November 2014, London UK, 2014.

FUNDED RESEARCH PROJECTS

- “New Methods in the Analysis of Market Competition: Oligopoly, Networks and Regulation”, Thales, 2012-2015.
- “Distance Learning of Unemployed Teaching staff in Creative Child Care”, Leonardo Da Vinci Project EL/98/1/68108/PI/I.1.1.e/FPC. 1998-2001
- “State of the Art Financial Services for the Inhabitants of Isolated Areas” (STARFISH), IST, EU, 2000-2002.
- «Bidirectional Broadcast Programs via Computer Networks» (Amphitryon), Operational Programme for Research and Technology (EPET II), 1999-2001.
- “New Applications of Telematics in Education”, Research & Technology Programme Cooperation Greece-Spain, 1997-99.
- HILDE (Hypermedia Intelligent Learning Development Environment), Operational Programme for Research and Technology (EPET II), Sub-Programme 1, 1995-97.
- HOLIST (Health Organizations Laboratory Intelligent System Technology), STRIDE HELLAS, 1991-93.

MEMBERSHIP IN SCIENTIFIC INSTITUTIONS

- Technical Chamber of Greece (TEE)
- Biomedical Society IEEE (Institute of Electrical & Electronics Engineers).
- Computer Society IEEE (Institute of Electrical & Electronics Engineers).
- Association for Computing (ACM)